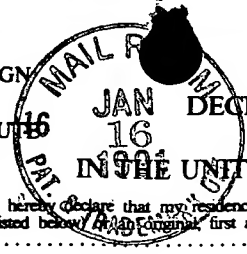


FOR UTILITY/DESIGN  
CIP/PLANT  
ORIGINAL/SUBSTITUTE  
DECLARATIONS



RULE 63 (37 C.F.R. 1.63)  
DECLARATION AND POWER OF ATTORNEY  
FOR PATENT APPLICATION  
IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

CUSHMAN  
FORM

As a below named inventor, I hereby declare that my residence, post office address and citizenship are as stated below next to my name, and I believe I am the original, first and sole inventor (if only one name is listed below) or joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled

GDF-1

the specification of which (CHECK applicable BOX(ES))

X ☒ is attached hereto.

BOX(ES) ☒ was filed on November 16, 1990 as U.S. Application No. 07/ 614,452

☐ was filed as PCT international Application No. PCT/ / on

and (if applicable to U.S. or PCT application) was amended on

I hereby state that I have reviewed and understand the contents of the above identified specification, including (to the best of my ability) the claims, as amended by any amendment referred to above. I acknowledge the duty to disclose information which is material to the examination of this application in accordance with 37 C.F.R. 1.56(a). I hereby claim foreign priority benefits under 35 U.S.C. 119/365 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate filed by me or my assignee disclosing the subject matter claimed in this application and having a filing date (1) before that of the application on which priority is claimed, or (2) if no priority claimed, before the filing date of this application:

PRIOR FOREIGN APPLICATION(S)

Number	Country	Day/MONTH/Year Filed	Priority Claimed	
			Yes	No

NONE

I hereby claim the benefit under 35 U.S.C. 120/365 of all United States applications listed below and PCT international applications listed above or below and, insofar as the subject matter of each of the claims of this application is not disclosed in such prior applications in the manner provided by the first paragraph of 35 U.S.C. 112, I acknowledge the duty to disclose material information as defined in 37 C.F.R. 1.56(a) which occurred between the filing date of each such prior application and the national or PCT international filing date of this application:

PRIOR U.S. OR PCT APPLICATION(S)

Application No. (series code/serial no.)	Day/MONTH/Year Filed	Status
		pending, abandoned, patented

07/538,372

15/6/90

pending

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

And I hereby appoint Cushman, Darby & Cushman, Eleventh Floor, 1615 I Street, N.W., Washington, D.C. 20036-5601, telephone number 861-3000 (to whom all communications are to be directed), and the below named partners thereof (of the same address) individually and collectively my attorneys to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith and with the resulting patent, and I hereby authorize them to act and rely on instructions from and communicate directly with the person/assignee/attorney/firm/organization who/which first sends/sent this case to them and by whom/which I hereby declare that I have consented after full disclosure to be represented unless/until I instruct Cushman, Darby & Cushman in writing to the contrary.

Paul N. Kokulis	62723	William K. West, Jr.	22057	William T. Bullinger	25503	Glenn J. Perry	28458
Raymond F. Lippitt	17519	Kevin E. Joyce	20508	Donald J. Bird	25323	Kendrew H. Colton	30363
G. Lloyd Knight	17698	Edward M. Prince	22429 302	W. Warren Taltavull	25647	Chris Comuntzis	31067
Carl G. Love	18781	Donald B. Deaver	23048	Watson T. Scott	26581	Lawrence Harbin	27644
Lawrence A. Hymo	20557	David W. Brinkman	20817	Peter W. Gowdey	25872 307	Wallace G. Walter	27843
Edgar H. Martin	20534	George M. Sirilla	18221	Dale S. Lazar	28872	Paul E. White, Jr.	32011

1) INVENTOR'S SIGNATURE Se Jin Lee Date 12/12/90  
Inventor's Name (typed) Se Jin Lee First LEE Middle Initial LEE Family Name LEE Country of Citizenship USA  
Residence (City) Baltimore, Md. MD (State/Foreign Country) MD USA  
Post Office Address (Include Zip Code) 2509A Steele Road, Baltimore, MD 21209

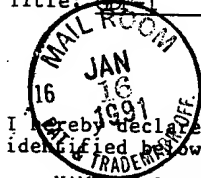
2) INVENTOR'S SIGNATURE \_\_\_\_\_ Date \_\_\_\_\_  
Inventor's Name (typed) \_\_\_\_\_ First \_\_\_\_\_ Middle Initial \_\_\_\_\_ Family Name \_\_\_\_\_ Country of Citizenship \_\_\_\_\_  
Residence (City) \_\_\_\_\_ (State/Foreign Country) \_\_\_\_\_  
Post Office Address (Include Zip Code) \_\_\_\_\_

3) INVENTOR'S SIGNATURE \_\_\_\_\_ Date \_\_\_\_\_  
Inventor's Name (typed) \_\_\_\_\_ First \_\_\_\_\_ Middle Initial \_\_\_\_\_ Family Name \_\_\_\_\_ Country of Citizenship \_\_\_\_\_  
Residence (City) \_\_\_\_\_ (State/Foreign Country) \_\_\_\_\_  
Post Office Address (Include Zip Code) \_\_\_\_\_

4) INVENTOR'S SIGNATURE \_\_\_\_\_ Date \_\_\_\_\_  
Inventor's Name (typed) \_\_\_\_\_ First \_\_\_\_\_ Middle Initial \_\_\_\_\_ Family Name \_\_\_\_\_ Country of Citizenship \_\_\_\_\_  
Residence (City) \_\_\_\_\_ (State/Foreign Country) \_\_\_\_\_  
Post Office Address (Include Zip Code) \_\_\_\_\_

FOR ADDITIONAL INVENTORS, check box ☐ and attach sheet (CDC-116/2) for same information for each re signature, name, date, citizenship, residence and address.

Inventor(s): LEE, Se-Jin (Atty. Dkt. 3)  
App. No. 07/614,452 or Int No.: \_\_\_\_\_  
Filed: Nov. 16, 1990 or Issued: \_\_\_\_\_  
Title: GDF-1 M# 81756 / Client Ref. \_\_\_\_\_



VERIFIED STATEMENT (DECLARATION) CLAIMING SMALL ENTITY STATUS  
(37 CFR 1.9(f) and 1.27(d)) - NONPROFIT ORGANIZATION

I hereby declare that I am an official empowered to act on behalf of the nonprofit organization identified below:

NAME OF ORGANIZATION CARNEGIE INSTITUTION OF WASHINGTON  
ADDRESS OF ORGANIZATION 1530 P Street, N.W., Washington, D.C. 20005-1910

TYPE OF ORGANIZATION

- ☐ UNIVERSITY OR OTHER INSTITUTION OF HIGHER EDUCATION  
☐ TAX EXEMPT UNDER INTERNAL REVENUE SERVICE CODE (26 USC 501(a) AND 501(c)(3))  
☒ NONPROFIT SCIENTIFIC OR EDUCATIONAL UNDER STATUTE OF STATE OF THE UNITED STATES OF AMERICA  
(NAME OF STATE \_\_\_\_\_)  
(CITATION OF STATUTE \_\_\_\_\_)  
☐ WOULD QUALIFY AS TAX EXEMPT UNDER INTERNAL REVENUE SERVICE CODE (26 USC 501(a) AND 501(c)(3)) IF LOCATED IN THE UNITED STATES OF AMERICA  
☐ WOULD QUALIFY AS NONPROFIT SCIENTIFIC OR EDUCATIONAL UNDER STATUTE OF STATE OF THE UNITED STATES OF AMERICA IF LOCATED IN THE UNITED STATES OF AMERICA  
(NAME OF STATE \_\_\_\_\_)  
(CITATION OF STATUTE \_\_\_\_\_)

I hereby declare that the nonprofit organization identified above qualifies as a nonprofit organization as defined in 37 CFR 1.9(e) for purposes of paying reduced fees under Section 41(a) and (b) of Title 35, United States Code, with regard to the invention entitled GDF-1

by inventor(s) LEE, Se-Jin described in

X ☐ the Specification filed herewith,  
one ☒ Application No. 07/614,452, filed November 16, 1990  
box ☐ Patent No. \_\_\_\_\_, issued \_\_\_\_\_

I hereby declare that rights under contract or law have been conveyed to and remain with the nonprofit organization with regard to the above identified invention.

If the rights held by the nonprofit organization are not exclusive, each small entity individual, concern or organization having rights to the invention is listed below in (A) and (B) and no rights to the invention are held by any person, other than the inventor, who could not qualify as a small business concern under 37 CFR 1.9(d) or by any concern which would not qualify as a small business concern under 37 CFR 1.9(d) or a nonprofit organization under 37 CFR 1.9(e).

(A) FULL NAME of assignee/licensee/grantee/conveyee\* \_\_\_\_\_

ADDRESS \_\_\_\_\_

X proper box: ☐ INDIVIDUAL ☐ SMALL BUSINESS CONCERN ☐ NONPROFIT ORGANIZATION

(B) FULL NAME of assignee/licensee/grantee/conveyee\* \_\_\_\_\_

ADDRESS \_\_\_\_\_

X proper box: ☐ INDIVIDUAL ☐ SMALL BUSINESS CONCERN ☐ NONPROFIT ORGANIZATION

\*NOTE: Separate verified statement is required from each person, concern or organization named in (A) and (B) above having rights to the invention, averring to his/her/its status as a small entity. (37 CFR 1.27)

I acknowledge the duty to file, in this case, notification of any change in status resulting in loss of entitlement to small entity status prior to paying, or at the time of paying, the earliest of the issue fee or any maintenance fee due after the date on which status as a small entity is no longer appropriate. (37 CFR 1.23(b))

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application, any patent issuing thereon, or any patent to which this verified statement is directed.

NAME OF PERSON SIGNING JOHN J. LIVELY  
TITLE IN ORGANIZATION Director of Administration & Finance  
ADDRESS OF PERSON SIGNING 1530 P Street, N.W.  
Washington DC 20005

SIGNATURE [Signature] DATE 1-9-91